

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No. .... 09/783,377  
Filing Date ..... February 13, 2001  
Inventor ..... Vladimir Segal et al.  
Assignee ..... Honeywell International Inc.  
Group Art Unit ..... 1742  
Examiner ..... Combs, Janell A.  
Attorney's Docket No. .... 30-5022 (4015)  
Title: Methods of Forming Aluminum-Comprising Physical Vapor Deposition Targets;  
Sputtered Films; and Target Constructions

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

To: Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

From: Jennifer J. Taylor, Ph.D. (Tel. 509-624-4276; Fax 509-838-3424)  
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Spokane, WA 99201-3828

Dear Sir:

The Examiner's attention is directed to the references which are listed on the attached Form PTO-1449 and copies of which are attached.

Citation of these references is respectfully requested.

Respectfully submitted,

Dated:

July 1, 2004

By:

Jennifer J. Taylor  
Jennifer J. Taylor, Ph.D.  
Reg. No. 48,711

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
30-5022(4015)SERIAL NO.  
09/783,377LIST OF ART CITED BY APPLICANT  
(Use several sheets if necessary)APPLICANT  
Vladimir Segal et al.FILING DATE  
February 13, 2001GROUP  
1742

## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	5,850,755	12-1998	Segal et al.			
	AB						
	AC						
	AD						
	AE						

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AF							
	AG							
	AH							
	AI							
	AJ							

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)

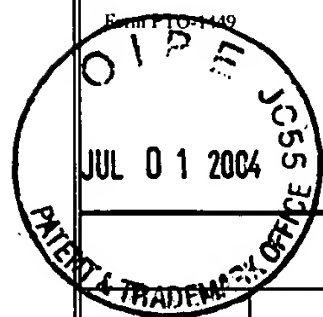
	AK		F. J. Humphreys et al., "Developing stable fine-grain microstructures by large strain deformation", Phil. Trans. R. Soc. Lond. A, June 15, 1999, Vol. 357 #1756, pp. 1663-1681.
	AL		S. Ferrasse et al., "Texture evolution during equal channel angular extrusion Part I. Effect of route, number of passes and initial texture", Materials Science and Engineering, Vol. 368, March 15, 2004, pp. 28-40.
	AM		V.M. Segal, "Equal channel angular extrusion: from macromechanics to structure formation", Materials Science & Engineering A271, November 1, 1999, pp. 322-333.
	AN		Ruslan Z. Valiev et al., "SPD-Processed Ultra-Fine Grained Ti Materials for Medical Applications", Advanced Materials & Processes, December 2003, pp. 33-34.
	AR		Segal et al., "Plastic Working of Metals by Simple Shear", Russian Metall. Vol. 1, pp. 99-105, 1991.
	AS		M. Furukawa et al., "Microhardness Measurements and the Hall-Petch Relationship in an Al-Mg Alloy with Submicrometer Grain Size", Acta Mater. Vol. 44, No. 11, pp. 4619-4629, 1996.
	AT		Yoshinori Iwahashi et al., "Microstructural Characteristics of Ultrafine-Grained Aluminum Produced Using Equal-Channel Angular Pressing", Metallurgical and Materials Transactions, Vol. 29A, pp. 2245-2252, September 1998.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
30-5004(4015)SERIAL NO.  
09/465,492LIST OF ART CITED BY APPLICANT  
(Use several sheets if necessary)APPLICANT  
Vladimir Segal et al.FILING DATE  
December 16, 1999GROUP  
1742

## U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						

## FOREIGN PATENT DOCUMENTS

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							Yes	No
	AF							
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	AH							
	AI							
	AJ							

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)

	AK		S. Ferrasse et al., "ECAE Targets with Sub-Micron Grain Structures Improve Sputtering Performance and Cost-of-Ownership", Semiconductor Manufacturing, Vol. 4, Issue 10, October 2003, pp. 76-92.
	AL		R.Z. Valiev et al., "Bulk Nanostructured materials from severe plastic deformation", Progress in Materials Science, Vol. 45, 2000, pp. 103-189.
	AM		R.Z. Valiev et al., "Plastic deformation of alloys with submicron-grained structure", Materials Science and Engineering, A137 (1991) pp. 35-40.
	AN		Ferrasse et al., "Microstructure and Properties of Copper and Aluminum Alloy 3003 Heavily Worked by Equal Channel Angular Extrusion", Metallurgical and Materials Transactions, Vol. 28A, April 1997, pp. 1047-1057.
	AR		
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	AT		

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